



RUSSIAN AGENCY
FOR PATENTS AND TRADEMARKS

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(12) **ABSTRACT OF INVENTION**

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(54) **METHOD FOR RADIO COMMUNICATIONS WITH MOBILE OBJECTS**

(57) Abstract:
FIELD: multiple-access radio
communication systems.

SUBSTANCE: change-over to new operating frequency is permanently made during each time step at change in frame composition and length and time interval numbers related to one movable object are changed in each frame, data arriving from sensors of one mobile object during adjacent time steps are additionally processed to enable determination of mobile object characteristics such as location and motion parameters, to estimate existing situation,

and to take decision on reliability of data, elimination of address pulse transmission from central station to mobile objects, operation of transceivers in each exchange frame at respective frequency known by mobile radio communication object from central-station information unit, on reduction of frame length as function of number of mobile objects and, hence, on increase in rate of updating information about mobile objects.

EFFECT: enhanced noise immunity of communication line and data exchange security.

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